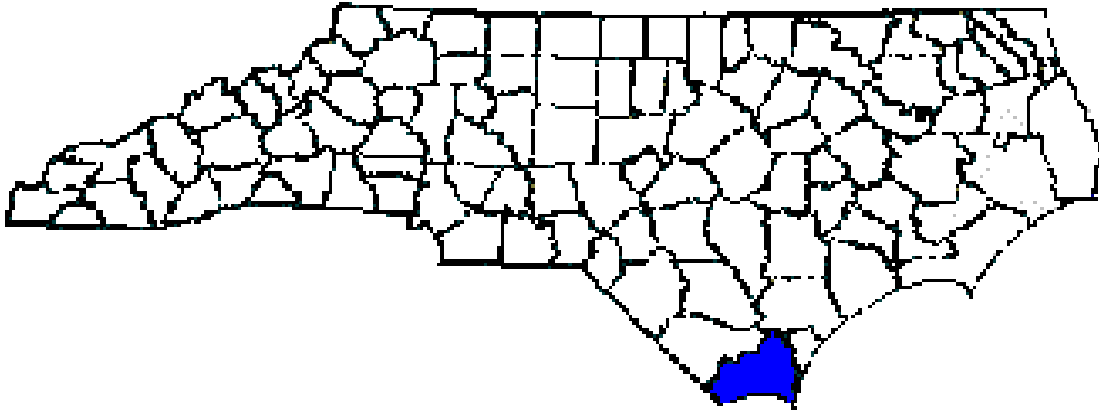


ANNUAL REPORT FOR 2005



**Allen Creek Bridge Mitigation Site
Brunswick County
TIP No. B-3116**



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December 2005

TABLE OF CONTENTS

SUMMARY	1
1.0 Introduction	2
.1 Project Description	2
.2 Purpose	2
.3 Project History	2
2.0 Vegetation:	4
.1 Success Criteria	4
.2 Description of Species.....	4
.3 Results of Vegetation Monitoring	4
.4 Conclusions.	4
3.0 Overall Conclusions and Recommendations	4

FIGURES

Figure 1 – Site Location Map	3
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APPENDICES

Appendix A – Site Photos	5
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SUMMARY

The Allen Creek Bridge Mitigation Site is located in Brunswick County. The site was planted in 2004 and was designed as wetland mitigation for impacts associated with bridge project B-3116.

The mitigation encompasses approximately 0.24 acres total of wetland restoration. The restoration effort involved re-vegetating the area that was temporarily impacted due to the use of mechanized land clearing. The area that was impacted by mechanized clearing is being monitored to ensure that it re-attains wetland jurisdictional status. The restoration area was re-vegetated with *Spartina alterniflora*. No hydrologic monitoring is required for this project; however, vegetation monitoring is required for three years.

After the second year of monitoring, the Allen Creek Bridge site shows by visual observation that the *Spartina alterniflora* in the wetland are surviving and that the impacted area is re-attaining wetland jurisdictional status.

NCDOT recommends continuing vegetation monitoring of this site.

1.0 INTRODUCTION

1.1 Project Description

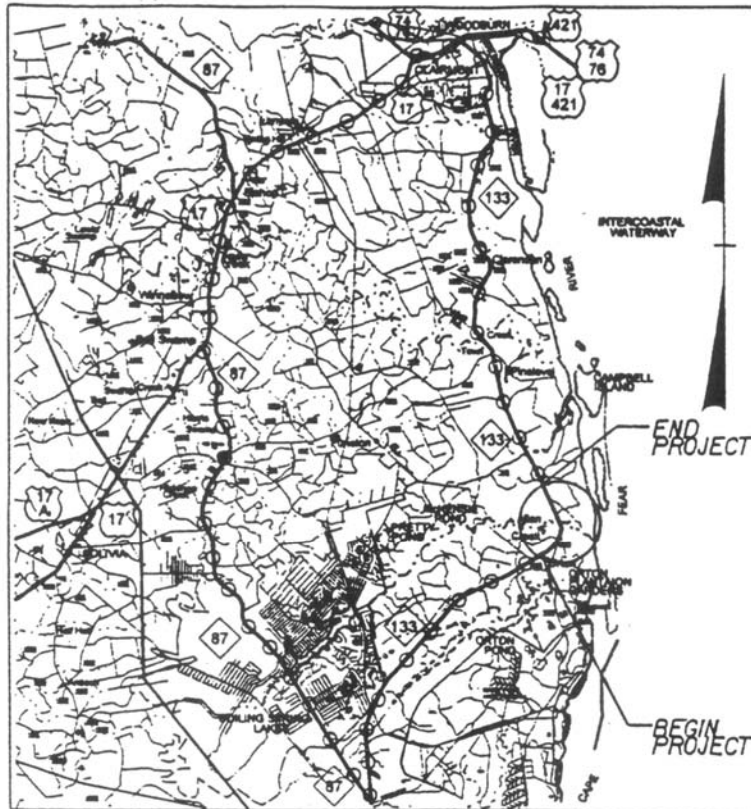
The Allen Creek Bridge Mitigation site is located at Bridge No. 56 over Allen Creek on NC 133 (Figure 1). The site consists of approximately 0.24 acres of mitigation for wetland impacts associated with project B-3116.

1.2 Purpose

In order for a mitigation site to be considered successful, the site must meet vegetation success criteria. This report details the vegetation monitoring in 2005 at the Allen Creek Bridge mitigation Site. Hydrologic monitoring was not required for the site.

1.3 Project History

May 2004	Site planted
September 2004	Vegetation Monitoring (1 year)
July 2005	Vegetation Monitoring (2 year)



VICINITY MAP

FIGURE 1

B-3116

BRUNSWICK COUNTY

2.0 VEGETATION: ALLEN CREEK BRIDGE MITIGATION SITE (YEAR 2 MONITORING)

2.1 Success Criteria

Success Criteria states that the temporarily impacted area where mechanized clearing occurred shall be replanted using *Spartina alterniflora* and the temporarily impacted area must re-attain wetland jurisdictional status at the end of three years.

2.2 Description of Species

The following wetland species was planted in the Wetland Reforestation area:

Spartina alterniflora, Smooth Cordgrass

2.3 Results of Vegetation Monitoring

The impacted area where the mechanized clearing occurred and was re-vegetated is re-attaining wetland jurisdictional status and the planted species is surviving.

Site Notes: Other species noted: big cordgrass, *Juncus* sp., water grass, and *Scirpus* sp.

2.4 Conclusions

There were approximately 0.24 acres total of wetland restoration on site. There were no plots established on the site. By visual observation the Allen Creek Bridge site shows that the planted species is surviving and that the impacted area is re-attaining wetland jurisdictional status.

3.0 Overall Conclusions and Recommendations

NCDOT will continue vegetation monitoring at the Allen Creek Bridge Site.

APPENDIX A

SITE PHOTOS

Allen Creek Bridge



Photo 1



Photo 2



Photo 3



Photo 4